EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S166	6	ordpath same node same (label or tag)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S167	239	label$4 near2 tree same (leaves or leaf)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S168	114	label$4 near2 tree same (leaves or leaf) and ordered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S169	24	label$4 near2 tree same (leaves or leaf) and (ordered adj2 tree)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S170	19	label$4 near2 tree same (leaves or leaf) and (ordered adj2 tree)and @ad<"20040730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S171	12	L$tree same label	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S173	114	label$4 near2 tree same (leaves or leaf) and ordered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S174	157	label same xml same tree	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46

EAST Search History

S17 5	6	ordpath same node same (label or tag)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S17 6	24	label$4 near2 tree same (leaves or leaf) and (ordered adj2 tree)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S17 7	19	label$4 near2 tree same (leaves or leaf) and (ordered adj2 tree)and @ad<"20040730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S17 8	12	L$tree same label	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S17 9	6	ordpath same node same (label$3 tag index$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S18 0	5	ordpath same node same (label$3 tag index$3) and (maximum minimum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S18 1	1	atom same tree same xml same (index label)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S18 2	2	("20050028091").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/07 13:46

EAST Search History

S183	2	S182 and (minimum maximum parameter auxiliary atom label labeling hierarchical partition split)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S186	208	(index$3 label$3) near4 ((binary near2 tree) b$1tree) same (height level)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S187	94	(index$3 label$3) near4 ((binary near2 tree) b$1tree) near8 (height level)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S188	85	((generat$3 creat$3 build$3) near4 (index$3 label$3) near4 ((binary near2 tree) b$1tree))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S189	68	((generat$3 creat$3 build$3) near4 (index$3 label$3) near4 ((binary near2 tree) b$1tree)) and (level height)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S191	26	balance$1 near2 (b$1tree "binary tree") and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S192	402	balance$1 near2 (b$1tree "binary tree") and (generat$3 creat$3 build$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S193	34	balance$1 near2 (b$1tree "binary tree") near4 (generat$3 creat$3 build$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46

EAST Search History

S194	22	balance$1 near2 (b$1tree "binary tree") near2 (index$3 label$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S195	186	r$1index	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S196	256	r$1tree	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S197	50	r$1tree and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S199	8	("20020087571" | "5781906" | "5873087" | "6240407" | "6721727").PN. OR ("6889226"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 13:46
S201	490	tree same (maximum minimum)same label$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S202	185	tree same (maximum minimum)same label$3 and document	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S203	20	tree same ((maximum minimum) near4 (node branch child))same label$3 and document	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46

EAST Search History

S204	8	(tree$1 or hierarch$4) same (build$3 or creat$3) and (max$4 and min$4) same (tree$1 or hierarch$4) same (children or child or leave$1) and (@ad<"20030730") and (label$3) same node$1 same order$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S205	41	(tree$1 or hierarch$4) same (build$3 or creat$3) and (max$4 or min$4) same (tree$1 or hierarch$4) same (children or child or leave$1) and (@ad<"20030730") and (label$3) same node$1 same order$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S206	80	((tree$1 or hierarch$4) same (build$3 or creat$3)) and ((max$4 and min$4) with (children or child or leave$1)) and (@ad<"20030730") and (label$3) and node$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S207	71	((tree$1 or hierarch$4) with (build$3 or creat$3)) and ((max$4 and min$4) with (children or child or leave$1)) and (@ad<"20030730") and (label$3) and node$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S208	12	((tree$1 or hierarch$4) with (build$3 or creat$3)) and ((max$4 and min$4) with (children or child or leave$1)) and (@ad<"20030730") and (label$3) and node$1 and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S209	101	(construct$3 build$3 creat$3)near2 b$1tree	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S210	24	(construct$3 build$3 creat$3)near2 b$1tree and split	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S211	17	(construct$3 build$3 creat$3)near2 b$1tree and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46

S212	6	(US-20020184504-$ or US-20030172352-$ or US-20050038785-$).did. or (US-6247016-$ or US-6393427-$ or US-6694323-$ or US-6804677-$). did.	US-PGPUB; USPAT	OR	ON	2007/08/07 13:46
S213	6	S212 and (min minimum max maximum order xml document build hierarch$4 leaves leaf atom label$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S214	1	label same xml same tree same dynamic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S215	158	xml same tree same dynamic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S216	25	xml with tree with dynamic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S217	50	(label labeling) with xml with tree	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S219	11	xml with parser with label	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S220	5	(optimizing optimized optimize) same xml same tree same cost	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46

EAST Search History

S221	4	(optimizing optimized optimize) same b+tree and cost	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S222	4	(optimizing optimized optimize) same b+tree	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S223	495	(minimize minimizing) same space same tree	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S224	71	(minimize minimizing) same space same tree and sub$1tree	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S226	39	(minimize minimizing) same space same tree and sub$1tree and @ad<"20030730" and level and children	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S227	1	label same xml same tree same dynamic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S228	6	ordpath same node same (label or tag)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S229	1	atom same tree same xml same (index label)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46

EAST Search History

S230	24	label$4 near2 tree same (leaves or leaf) and (ordered adj2 tree)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S231	19	label$4 near2 tree same (leaves or leaf) and (ordered adj2 tree)and @ad<"20040730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S232	12	L$tree same label	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S233	6	ordpath same node same (label or tag)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S234	24	label$4 near2 tree same (leaves or leaf) and (ordered adj2 tree)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S235	19	label$4 near2 tree same (leaves or leaf) and (ordered adj2 tree)and @ad<"20040730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S236	12	L$tree same label	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S237	5	ordpath same node same (label$3 tag index$3) and (maximum minimum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46

EAST Search History

S238	34	balance$1 near2 (b$1tree "binary tree") near4 (generat$3 creat$3 build$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S239	22	balance$1 near2 (b$1tree "binary tree") near2 (index$3 label$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S240	50	r$1tree and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S241	20	tree same ((maximum minimum) near4 (node branch child))same label$3 and document	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S242	8	(tree$1 or hierarch$4) same (build$3 or creat$3) and (max$4 and min$4) same (tree$1 or hierarch$4) same (children or child or leave$1) and (@ad<"20030730") and (label$3) same node$1 same order$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S243	41	(tree$1 or hierarch$4) same (build$3 or creat$3) and (max$4 or min$4) same (tree$1 or hierarch$4) same (children or child or leave$1) and (@ad<"20030730") and (label$3) same node$1 same order$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S244	71	((tree$1 or hierarch$4) with (build$3 or creat$3)) and ((max$4 and min$4) with (children or child or leave$1)) and (@ad<"20030730") and (label$3) and node$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S245	12	((tree$1 or hierarch$4) with (build$3 or creat$3)) and ((max$4 and min$4) with (children or child or leave$1)) and (@ad<"20030730") and (label$3) and node$1 and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46

EAST Search History

S24 6	17	(construct$3 build$3 creat$3)near2 b$1tree and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S24 7	50	(label labeling) with xml with tree	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S24 8	11	xml with parser with label	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S24 9	5	(optimizing optimized optimize) same xml same tree same cost	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S25 0	4	(optimizing optimized optimize) same b+tree	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S25 1	25	xml with tree with dynamic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S25 2	3211	707/101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S25 3	42	xml with parser same label	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S25 4	6	(("6978422") or ("6785673") or ("6604100") or ("6519597") or ("5734907") or ("5860010")).PN.	US-PGPUB; USPAT; EPO	OR	OFF	2007/08/07 13:46

EAST Search History

S255	6	S254 and (xml tree atom)	US-PGPUB; USPAT; EPO	OR	ON	2007/08/07 13:46
S256	3	"ordered tree".ti.	US-PGPUB; USPAT; EPO	OR	ON	2007/08/07 13:46
S257	27	"ordered tree".ab.	US-PGPUB; USPAT; EPO	OR	ON	2007/08/07 13:46
S258	7	"ordered tree".ab. and xml	US-PGPUB; USPAT; EPO	OR	ON	2007/08/07 13:46
S259	13	("20020087571" | "20020157023" | "20030097637" | "20030167445" | "20040149826" | "20040181746" | "5491628" | "5915259" | "5920879" | "5970490" | "6480865" | "6487566" | "6569207").PN. OR ("7165216").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 13:46
S260	28	"ordered tree" and xml and @ad<"20030730"	US-PGPUB; USPAT; EPO	OR	ON	2007/08/07 13:46
S261	13	b$1tree with order with "m"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S262	9	b$1tree with order with "m" and @ad<"20030730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:46
S263	8166	707/100,101.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2007/08/07 15:05
S264	3660	715/513,514.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2007/08/07 15:06
S265	0	(707/100,101.ccls.) and (label$3 and order$2 and tree and parameter and split).clm.	US-PGPUB; USPAT; EPO	OR	ON	2007/08/07 15:06
S266	1	(715/513,514.ccls.) and (label$3 and order$2 and tree and parameter and split).clm.	US-PGPUB; USPAT; EPO	OR	ON	2007/08/07 15:07

Web Results **1** - **10** of about **467,000** for **label xml tree integer parameter**. (**0.17** seconds)

Advanced Uses of **XML** Micros
... that consists of a pair of the depth-first **label** and an **integer** representing the "depth" of that **XML** node in the **tree**. I will add "depth" as a **parameter** ...
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The Jalama Project: Documentation
During UI generation, Jalama descends the **tree** of the input **XML** and passes ... input element an **integer** textbox based on the condition that the element type ...
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[OFBiz] SVN: r6809 - trunk/applications/accounting/widget
$Id: AccountingScreens.**xml** 6714 2006-02-11 08:27:30Z jacopo .... VIEW_INDEX" type="**Integer**"/> - <set field="viewSize" from-field="**parameters**. ...
lists.ofbiz.org/pipermail/svn/2006-February/003421.html - 23k - Cached - Similar pages

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File Format: PDF/Adobe Acrobat - View as HTML
Pattern (regex) for name of the dollar **parameter** to rename ... Root element of window **tree** **XML** file is <node> element, which represents window **tree** node. ...
itcofe.web.cern.ch/itcofe/Projects/LHC-GCS/DevelopersCorner/RelatedDocuments/**XML**Generator.pdf - Similar pages

steffen: server/kolab-horde-framework/kolab-horde-framework/**Tree** ...
@param **integer** $side Which side to place the extra columns on. ... $Horde: framework/**Tree**/package.**xml**,v 1.6 2003/12/16 00:32:46 slusarz Exp $ --> <! ...
freegis.org/pipermail/kolab-commits/2005q4/003292.html - 19k - Cached - Similar pages

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VIEW_SIZE" type="**Integer**" default-value="30"/> </actions> <widgets> - <decorator-screen name="mainAccountingDecorator" location="${**parameters**. ...
mail-archives.apache.org/mod_mbox/ofbiz-commits/200703.mbox/%3C20070304004357.48CCA1A981A@eris.apache.org%3E - 16k - Cached - Similar pages

TreeBuilder
The replEnvVars() is a method that resolves variables of the **XML-Tree**. .... **Integer** nodeId). Removes the given node from the **Tree**. **Parameters**:: nodeId - ...
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[PDF] FIX: Feature-based Indexing Technique for **XML** Documents
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between a twig query and an **XML tree**. 2. We denote the **label** of node x as **label**(x). ...... where α > σ (∀σ ∈ Σ), and β is a small **integer parameter**. ...
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[PDF] LNCS 3268 - L-**Tree**: A Dynamic Labeling Structure for Ordered **XML** Data
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labeling scheme in Figure 1 which assigns **labels** from the **integer** domain, ... the number of bits used per **label** as functions of an L-**Tree parameters** f and ...
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[PDF] L-**Tree**: a Dynamic Labeling Structure for Ordered **XML** Data
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labeling scheme in Figure 1 which assigns **labels** from the **integer** domain, ... are some constant **parameters**, we can maintain the **labels** of **XML**. data with ...

Published before July 2003
Terms used: **label ordered xml tree parameter**

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Relevance scale

1 Efficient filtering of XML documents with XPath expressions

C.-Y. Chan, P. Felber, M. Garofalakis, R. Rastogi

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(383.34 KB) Additional Information: full citation, abstract, citings, index terms

The publish/subscribe paradigm is a popular model for allowing publishers (i.e., data generators) to selectively disseminate data to a large number of widely dispersed subscribers (i.e., data consumers) who have registered their interest in specific information items. Early publish/subscribe systems have typically relied on simple subscription mechanisms, such as keyword or "bag of words" matching, or simple comparison predicates on attribute values. The emergence of XML as a standar ...

Keywords: Data dissemination, Document filtering, Index structure, XML, XPath

2 XML indexing and compression: ViST: a dynamic index method for querying XML data by tree structures

Haixun Wang, Sanghyun Park, Wei Fan, Philip S. Yu

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

Publisher: ACM Press

Full text available: pdf(244.47 KB) Additional Information: full citation, abstract, references, citings, index terms

With the growing importance of XML in data exchange, much research has been done in providing flexible query facilities to extract data from structured XML documents. In this paper, we propose ViST, a novel index structure for searching XML documents. By representing both XML documents and XML queries in structure-encoded sequences, we show that querying XML data is equivalent to finding subsequence matches. Unlike index methods that disassemble a query into multiple sub-queries, and then *joi* ...

3 Data integration and sharing I: Exchanging intensional XML data

Tova Milo, Serge Abiteboul, Bernd Amann, Omar Benjelloun, Fred Dang Ngoc

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

Publisher: ACM Press

Full text available: pdf(237.21 KB) Additional Information: full citation, abstract, references, citings, index terms

XML is becoming the universal format for data exchange between applications. Recently,

the emergence of Web services as standard means of publishing and accessing data on the Web introduced a new class of XML documents, which we call *intensional* documents. These are XML documents where some of the data is given explicitly while other parts are defined only intensionally by means of embedded calls to Web services.When such documents are exchanged between applications, one has the choice to ...

4 Research sessions: XML II: Approximate XML joins
Sudipto Guha, H. V. Jagadish, Nick Koudas, Divesh Srivastava, Ting Yu
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**
Publisher: ACM Press

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, citings, index terms

XML is widely recognized as the data interchange standard for tomorrow, because of its ability to represent data from a wide variety sources. Hence, XML is likely to be the format through which data from multiple sources is integrated.In this paper we study the problem of integrating XML data sources through correlations realized as join operations. A challenging aspect of this operation is the XML document structure. Two documents might convey approximately or exactly the same information but m ...

5 Typechecking XML views of relational databases
Noga Alon, Tova Milo, Frank Neven, Dan Suciu, Victor Vianu
July 2003 **ACM Transactions on Computational Logic (TOCL)**, Volume 4 Issue 3
Publisher: ACM Press

Full text available: pdf(401.36 KB) Additional Information: full citation, abstract, references, citings, index terms

Motivated by the need to export relational databases as XML data in the context of the Web, we investigate the *typechecking* problem for transformations of relational data into tree data (XML). The problem consists of statically verifying that the output of every transformation belongs to a given output tree language (specified for XML by a DTD), for input databases satisfying given integrity constraints. The typechecking problem is parameterized by the class of formulas defining the trans ...

Keywords: Complexity, XML, logic, relational databases, typechecking

6 TIMBER: A native XML database
H. V. Jagadish, S. Al-Khalifa, A. Chapman, L. V. S. Lakshmanan, A. Nierman, S. Paparizos, J. M. Patel, D. Srivastava, N. Wiwatwattana, Y. Wu, C. Yu
December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(268.39 KB) Additional Information: full citation, abstract, citings, index terms

This paper describes the overall design and architecture of the Timber XML database system currently being implemented at the University of Michigan. The system is based upon a bulk algebra for manipulating trees, and natively stores XML. New access methods have been developed to evaluate queries in the XML context, and new cost estimation and query optimization techniques have also been developed. We present performance numbers to support some of our design decisions. We believe that the key in ...

Keywords: Algebra, Document management, Hierarchical, Query processing, Semi-structured

7 Research sessions: XML I: QURSED: querying and reporting semistructured data
Yannis Papakonstantinou, Michalis Petropoulos, Vasilis Vassalos
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms

QURSED enables the development of web-based query forms and reports (QFRs) that query and report semistructured XML data, i.e., data that are characterized by nesting, irregularities and structural variance. The query aspects of a QFR are captured by its query set specification, which formally encodes multiple parameterized condition fragments and can describe large numbers of queries. The run-time component of QURSED produces XQuery-compliant queries by synthesizing fragments from the query set ...

8 A Web Odyssey: from Codd to XML

Victor Vianu

May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '01**

Publisher: ACM Press

Full text available: pdf(282.10 KB) Additional Information: full citation, references, citings, index terms

9 DTD inference for views of XML data

Yannis Papakonstantinou, Victor Vianu

May 2000 **Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '00**

Publisher: ACM Press

Full text available: pdf(347.61 KB) Additional Information: full citation, abstract, references, citings, index terms

We study the inference of Data Type Definitions (DTDs) for views of XML data, using an abstraction that focuses on document content structure. The views are defined by a query language that produces a list of documents selected from one or more input sources. The selection conditions involve vertical and horizontal navigation, thus querying explicitly the order present in input documents. We point several strong limitations in the descriptive ability of current DTDs and the need for extendi ...

10 Representing and querying XML with incomplete information

Serge Abiteboul, Luc Segoufin, Victor Vianu

May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '01**

Publisher: ACM Press

Full text available: pdf(226.27 KB) Additional Information: full citation, abstract, references, citings, index terms

We study the representation and querying of XML with incomplete information. We consider a simple model for XML data and their DTDs, a very simple query language, and a representation system for incomplete information in the spirit of the representations systems developed by Imielinski and Lipski for relational databases. In the scenario we consider, the incomplete information about an XML document is continuously enriched by successive queries to the document. We show that our representation ...

11 XDuce: A statically typed XML processing language

Haruo Hosoya, Benjamin C. Pierce

May 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(242.48 KB) Additional Information: full citation, abstract, references, citings, index terms, review

XDuce is a statically typed programming language for XML processing. Its basic data values are XML documents, and its types (so-called *regular expression types*) directly correspond to document schemas. XDuce also provides a flexible form of *regular expression pattern matching*, integrating conditional branching, tag checking, and subtree

extraction, as well as dynamic typechecking. We survey the principles of XDuce's design, develop examples illustrating its key features, describe i ...

Keywords: Type systems, XML, subtyping, tree automata

12 SilkRoute: A framework for publishing relational data in XML
Mary Fernández, Yana Kadiyska, Dan Suciu, Atsuyuki Morishima, Wang-Chiew Tan
December 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 4
Publisher: ACM Press

Full text available: pdf(687.91 KB) Additional Information: full citation, abstract, references, citings, index terms

XML is the "lingua franca" for data exchange between interenterprise applications. In this work, we describe SilkRoute, a framework for publishing relational data in XML. In SilkRoute, relational data is published in three steps: the relational tables are presented to the database administrator in a canonical XML view; the database administrator defines in the XQuery query language a public, virtual XML view over the canonical XML view; and an application formulates an XQuery query over the publ ...

Keywords: XML, XML storage systems, XQuery

13 Graphs and trees: Efficiently mining frequent trees in a forest
Mohammed J. Zaki
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '02**
Publisher: ACM Press

Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, citings, index terms

Mining frequent trees is very useful in domains like bioinformatics, web mining, mining semistructured data, and so on. We formulate the problem of mining (embedded) subtrees in a forest of rooted, labeled, and ordered trees. We present TREEMINER, a novel algorithm to discover all frequent subtrees in a forest, using a new data structure called scope-list. We contrast TREEMINER with a pattern matching tree mining algorithm (PATTERNMATCHER). W ...

14 XML with data values: typechecking revisited
Noga Alon, Tova Milo, Frank Neven, Dan Suciu, Victor Vianu
May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '01**
Publisher: ACM Press

Full text available: pdf(264.17 KB) Additional Information: full citation, abstract, references, citings, index terms

We investigate the *type checking* problem for XML queries: statically verifying that every answer to a query conforms to a given output DTD, for inputs satisfying a given input DTD. This problem had been studied by a subset of the authors in a simplified framework that captured the structure of XML documents but ignored data values. We revisit here the type checking problem in the more realistic case when data values are present in documents and tested by queries. In this extended frame ...

15 XML manipulations: Experimenting with the circus language for XML modeling and transformation
Jean-Yves Vion-Dury, Veronika Lux, Emmanuel Pietriga
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering DocEng '02**
Publisher: ACM Press

Full text available: pdf(81.56 KB) Additional Information: full citation, abstract, references, citings, index terms

After a brief introduction to the Circus programming language, we present a simple type set to model XML structures. We then describe a transformation that takes a mail as input and produces a reply, showing how subtyping is used in order to refine the type control and specialize the transformation. Conclusions are drawn both on our (easy to use but clearly limited) XML data model and on Circus itself ; expected qualities of the language are verified ; the need for some new features is expressed ...

Keywords: XML, XSLT, circus, document model, programming language, typed document transformation

16 Research sessions: similarity and matching: Statistical synopses for graph-structured XML databases
Neoklis Polyzotis, Minos Garofalakis
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**
Publisher: ACM Press
Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, citings, index terms

Effective support for XML query languages is becoming increasingly important with the emergence of new applications that access large volumes of XML data. All existing proposals for querying XML (e.g., XQuery) rely on a *pattern-specification language* that allows path navigation and branching through the XML data graph in order to reach the desired data elements. Optimizing such queries depends crucially on the existence of concise synopsis structures that enable accurate compile-time sele ...

17 Haskell and XML: generic combinators or type-based translation?
Malcolm Wallace, Colin Runciman
September 1999 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN international conference on Functional programming ICFP '99**, Volume 34 Issue 9
Publisher: ACM Press
Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

We present two complementary approaches to writing XML document-processing applications in a functional language.In the first approach, the generic tree structure of XML documents is used as the basis for the design of a library of combinators for generic processing: selection, generation, and transformation of XML trees.The second approach is to use a type-translation framework for treating XML document type definitions (DTDs) as declarations of algebraic data types, and a derivation of the cor ...

18 A fine-grained access control system for XML documents
Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati
May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2
Publisher: ACM Press
Full text available: pdf(330.60 KB) Additional Information: full citation, abstract, references, citings, index terms

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web ...

Keywords: Access control, World Wide Web, XML documents, authorizations specification and enforcement

19 [Anatomy of a native XML base management system]

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(300.97 KB) Additional Information: full citation, abstract, citings, index terms

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management system designed from scratch for storing and processing XML data. Contrary to the common belief that management of XML data is just another application for traditional databases like relational systems, we illustrate how almost every component in a ...

Keywords: Database, XML

20 [XML query processing II: A comprehensive XQuery to SQL translation using dynamic interval encoding]

David DeHaan, David Toman, Mariano P. Consens, M. Tamer Özsu

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

Publisher: ACM Press

Full text available: pdf(242.20 KB) Additional Information: full citation, abstract, references, citings, index terms

The W3C XQuery language recommendation, based on a hierarchical and ordered document model, supports a wide variety of constructs and use cases. There is a diversity of approaches and strategies for evaluating XQuery expressions, in many cases only dealing with limited subsets of the language. In this paper we describe an implementation approach that handles XQuery with arbitrarily-nested FLWR expressions, element constructors and built-in functions (including structural comparisons). Our propos ...

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